FIG. 1

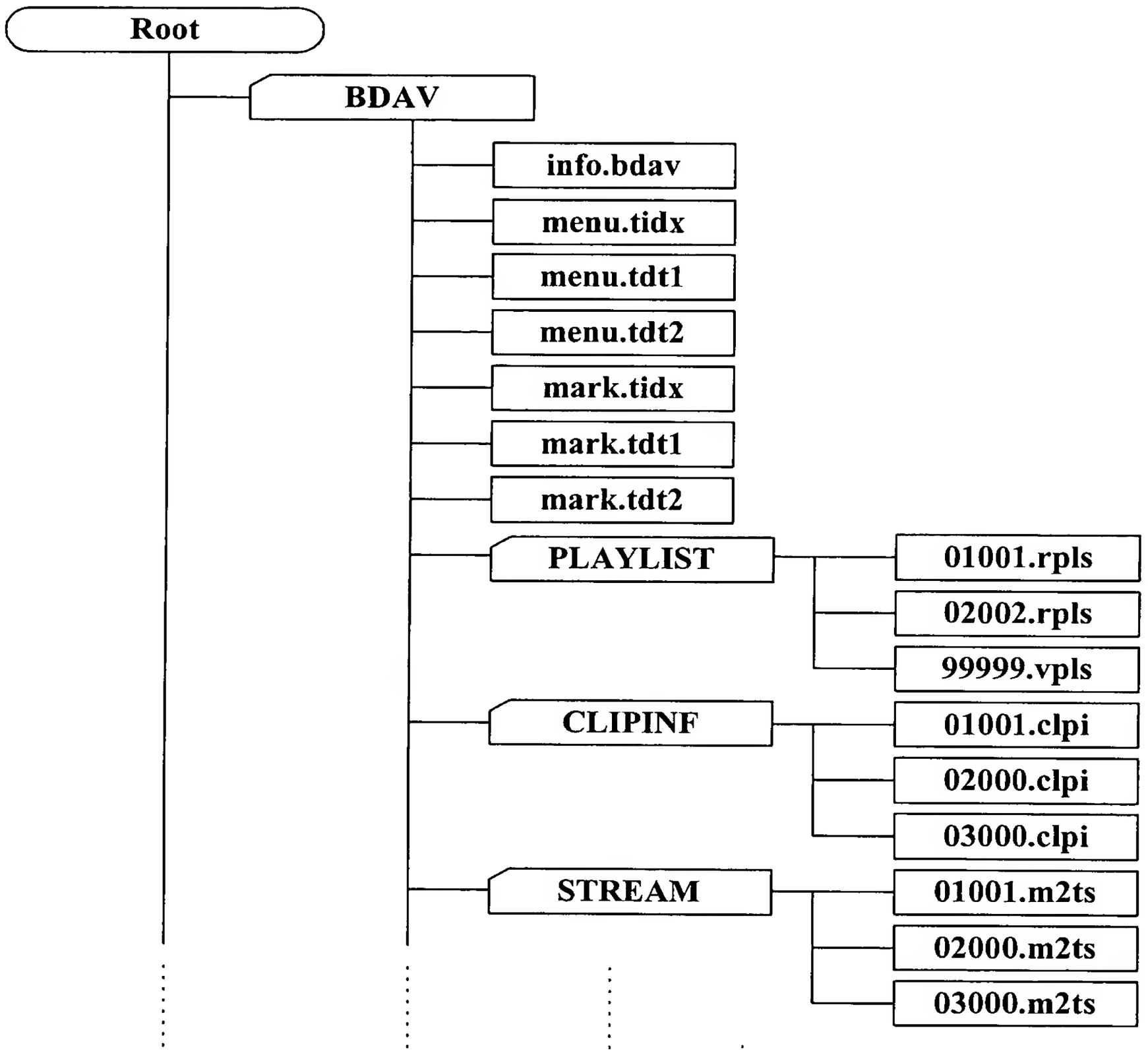

Root
BDAV
info.bdav
menu.tidx
menu.tdt1
menu.tdt2
mark.tidx
mark.tdt1
mark.tdt2
PLAYLIST
01001.rpls
02002.rpls
99999.vpls
CLIPINF
01001.clpi
02000.clpi
03000.clpi
STREAM
01001.m2ts
02000.m2ts
03000.m2ts

FIG. 2

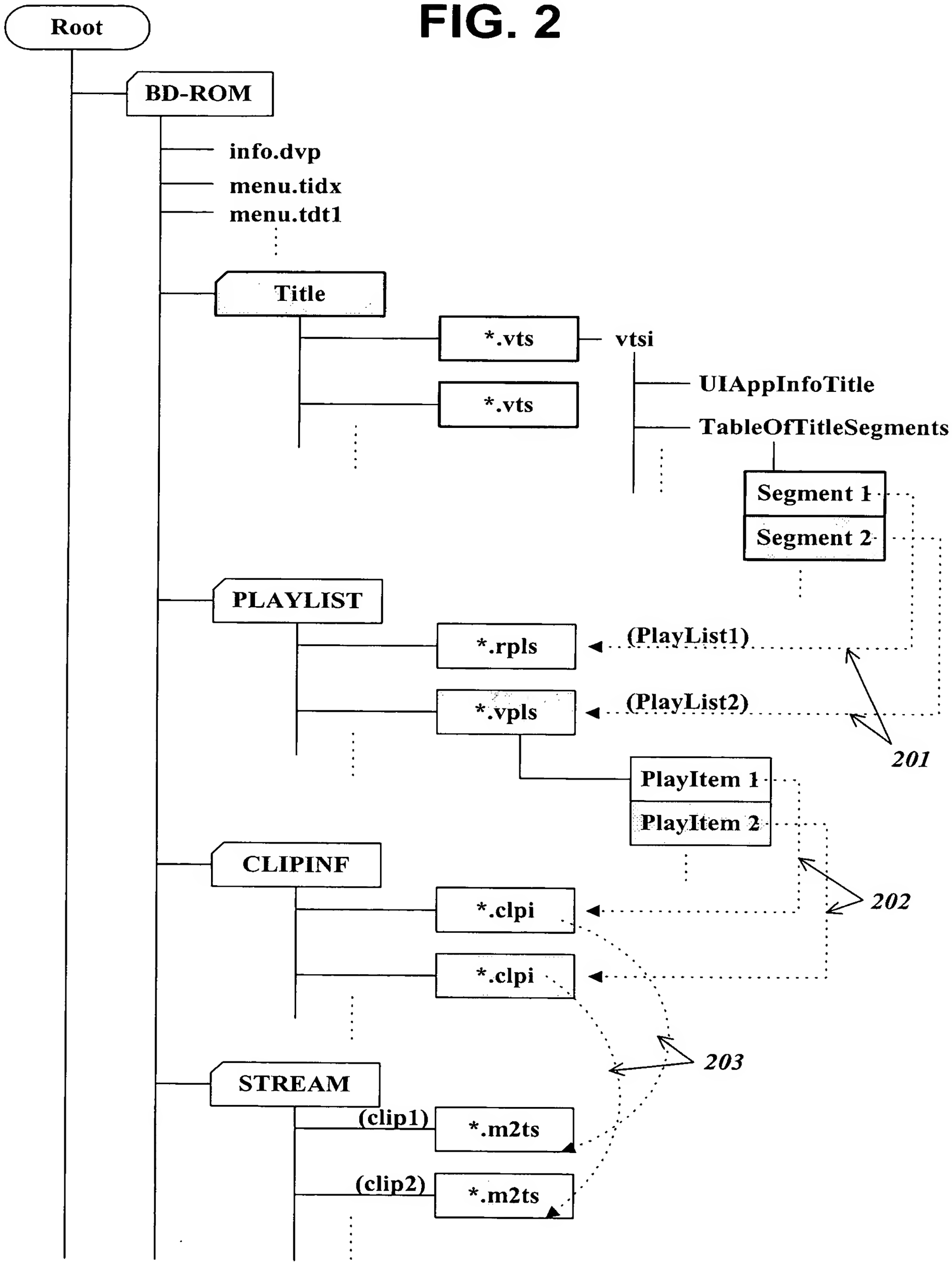

Root
BD-ROM
info.dvp
menu.tidx
menu.tdt1
Title
*.vts
vtsi
*.vts
UIAppInfoTitle
TableOfTitleSegments
Segment 1
Segment 2
PLAYLIST
*.rpls
(PlayList1)
*.vpls
(PlayList2)
201
PlayItem 1
PlayItem 2
CLIPINF
*.clpi
202
*.clpi
203
STREAM
(clip1)
*.m2ts
(clip2)
*.m2ts

FIG. 3

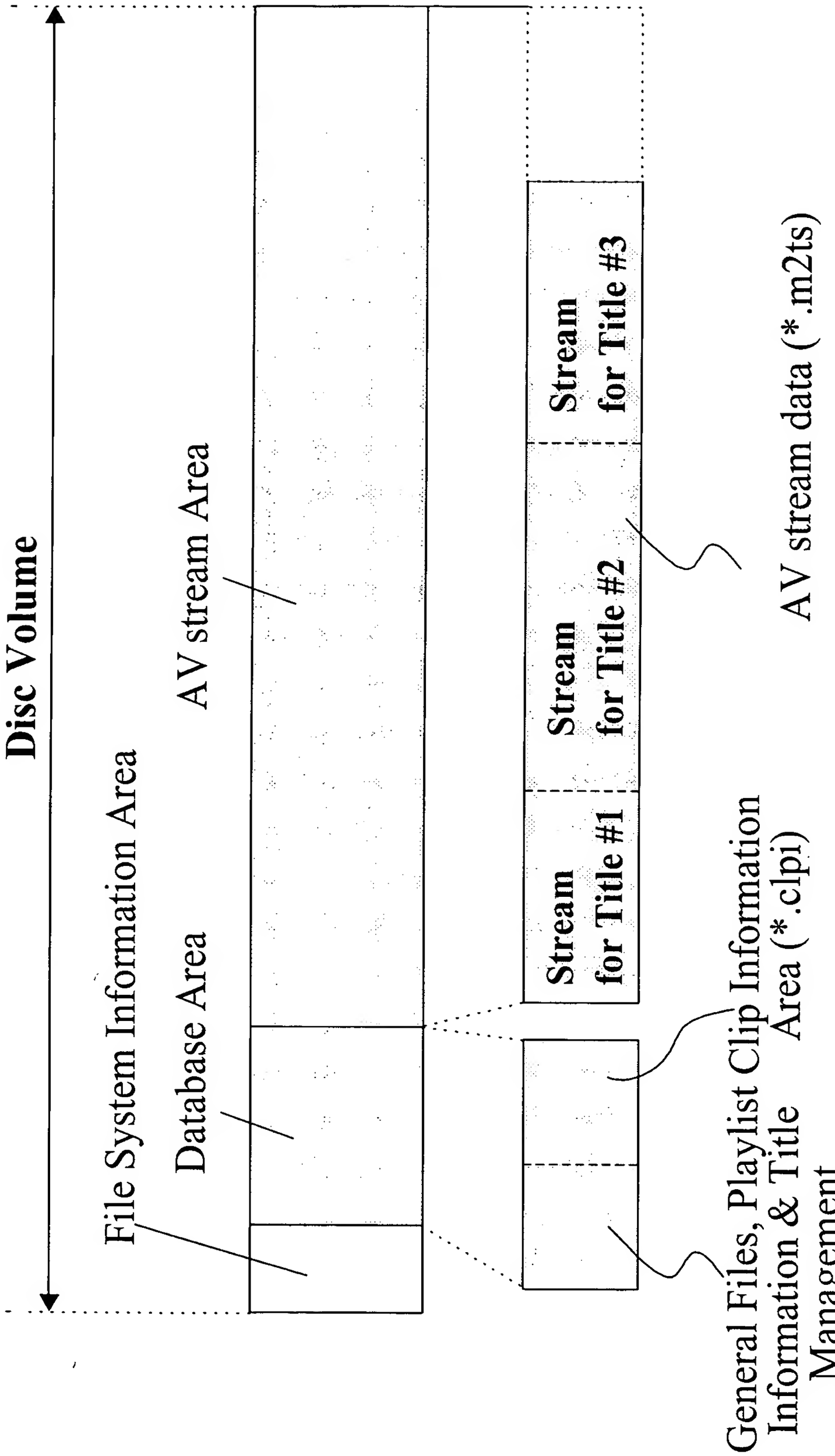

Disc Volume
File System Information Area
Database Area
AV stream Area
Stream for Title #1
Stream for Title #2
Stream for Title #3
Clip Information Area (*.clpi)
AV stream data (*.m2ts)
General Files, Playlist Clip Information & Title Management Information Area (*.rpls,*.vpls,*.vts)

FIG. 4

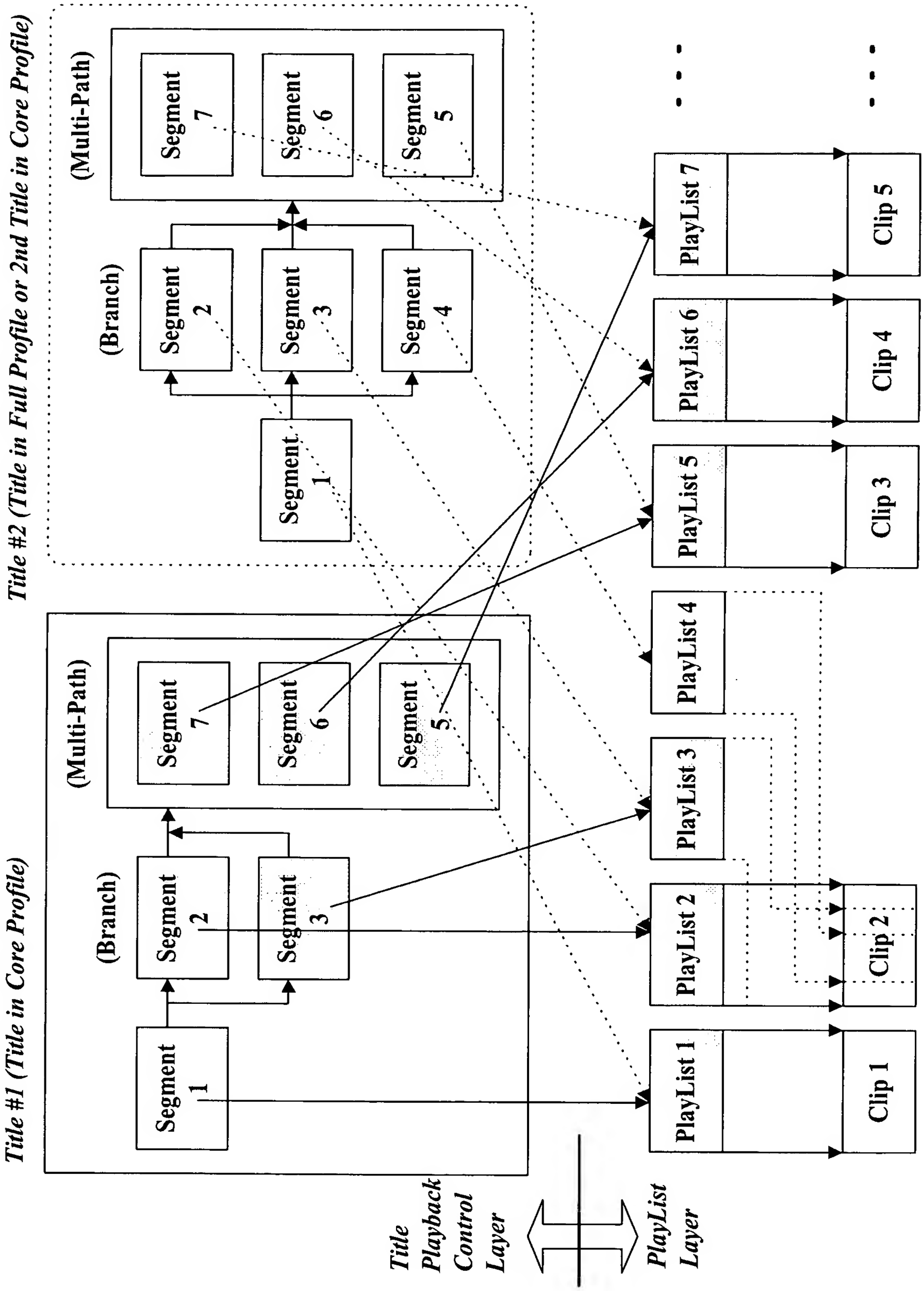

Title #1 (Title in Core Profile)
(Multi-Path)
(Branch)
Segment 1
Segment 2
Segment 3
Segment 5
Segment 6
Segment 7
Title #2 (Title in Full Profile or 2nd Title in Core Profile)
(Multi-Path)
(Branch)
Segment 1
Segment 2
Segment 3
Segment 4
Segment 5
Segment 6
Segment 7
PlayList 1
PlayList 2
PlayList 3
PlayList 4
PlayList 5
PlayList 6
PlayList 7
Clip 1
Clip 2
Clip 3
Clip 4
Clip 5
Title Playback Control Layer
PlayList Layer

FIG. 5

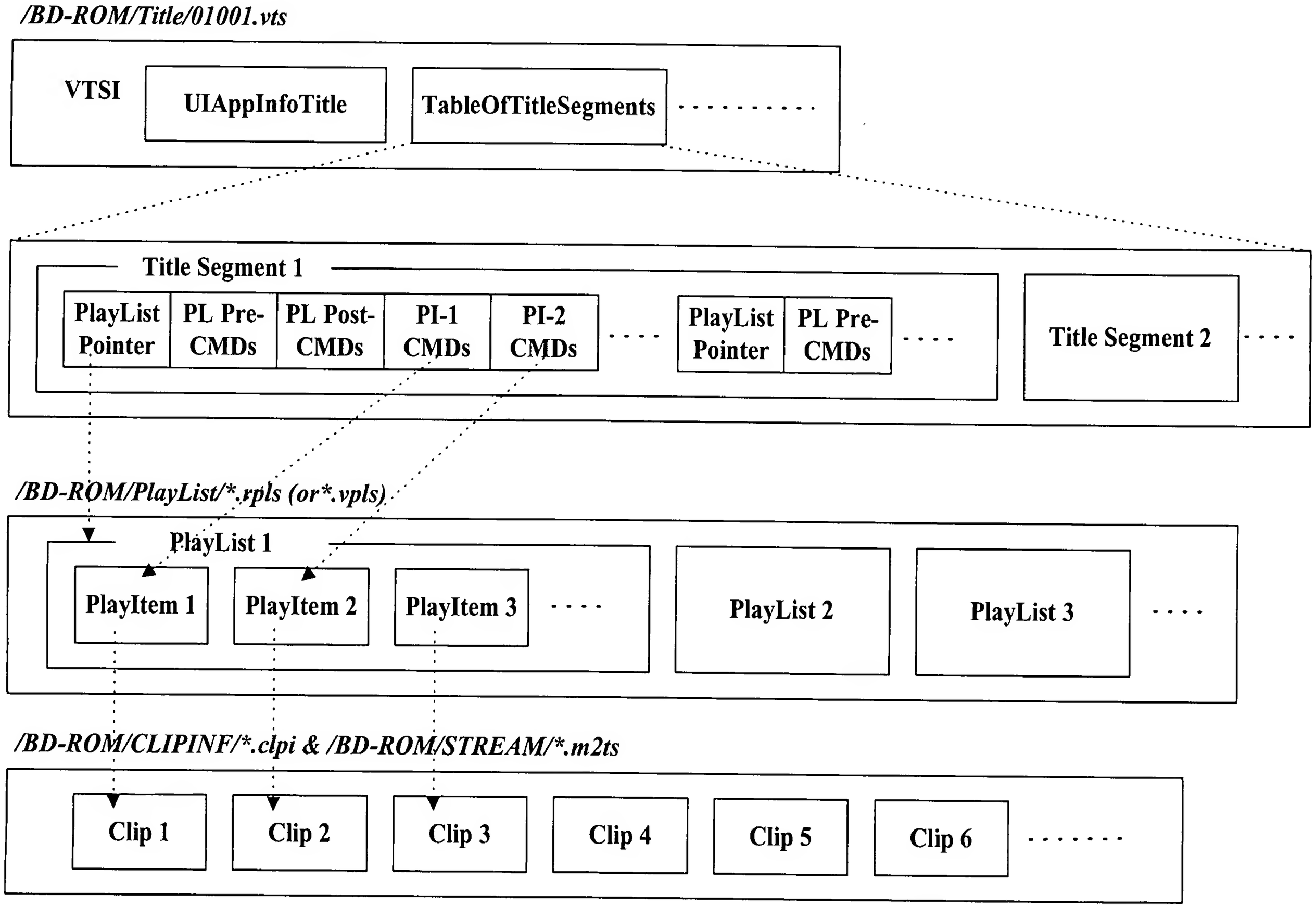

/BD-ROM/Title/01001.vts
VTSI
UIAppInfoTitle
TableOfTitleSegments
Title Segment 1
PlayList Pointer
PL Pre-CMDs
PL Post-CMDs
PI-1 CMDs
PI-2 CMDs
PlayList Pointer
PL Pre-CMDs
Title Segment 2
/BD-ROM/PlayList/*.rpls (or*.vpls)
PlayList 1
PlayItem 1
PlayItem 2
PlayItem 3
PlayList 2
PlayList 3
/BD-ROM/CLIPINF/*.clpi & /BD-ROM/STREAM/*.m2ts
Clip 1
Clip 2
Clip 3
Clip 4
Clip 5
Clip 6

FIG. 6

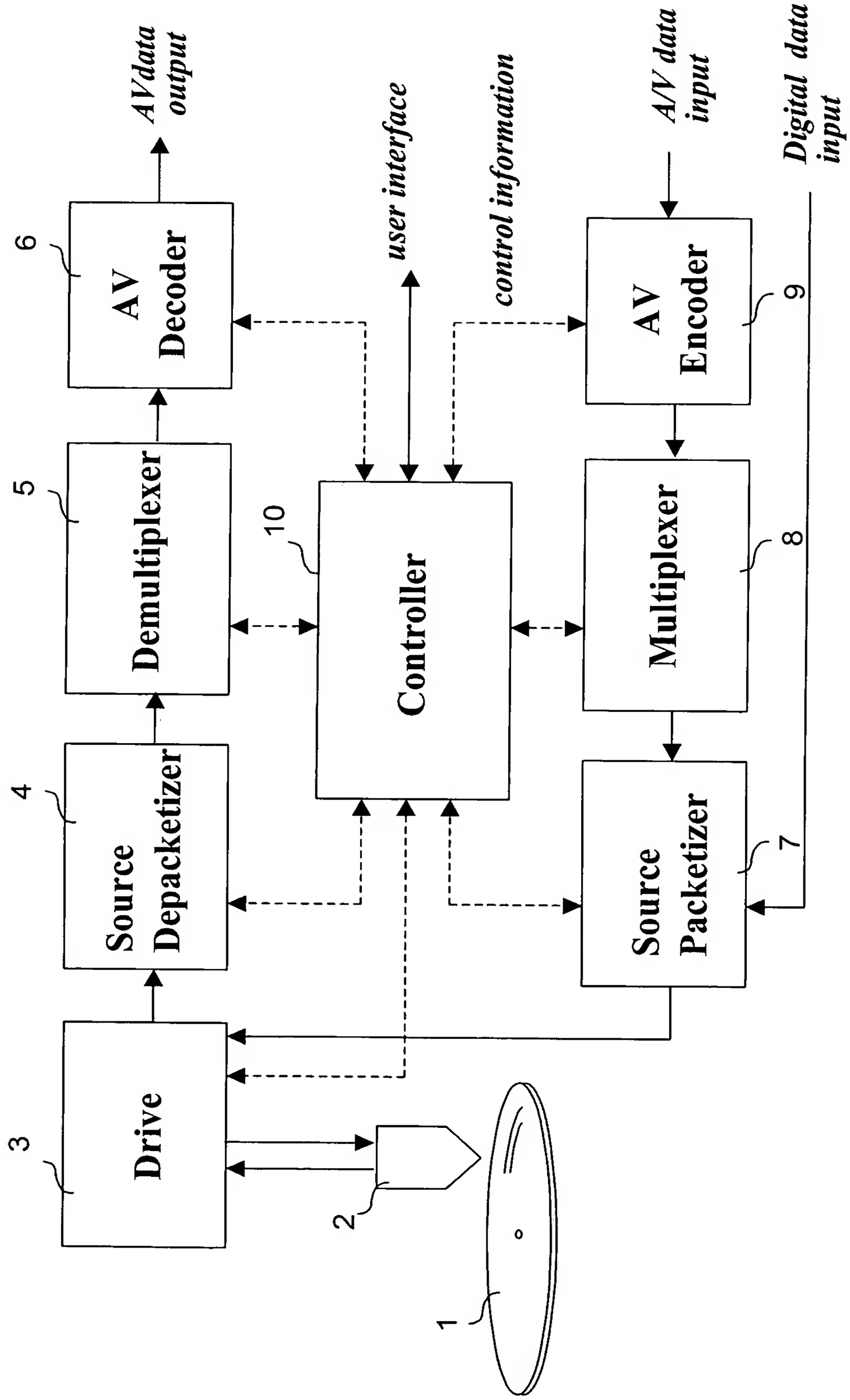

AV/data output
user interface
control information
A/V data input
Digital data input
AV Decoder
AV Encoder
Demultiplexer
Controller
Multiplexer
Source Depacketizer
Source Packetizer
Drive
6
5
10
9
8
4
7
3
2
1

FIG. 7

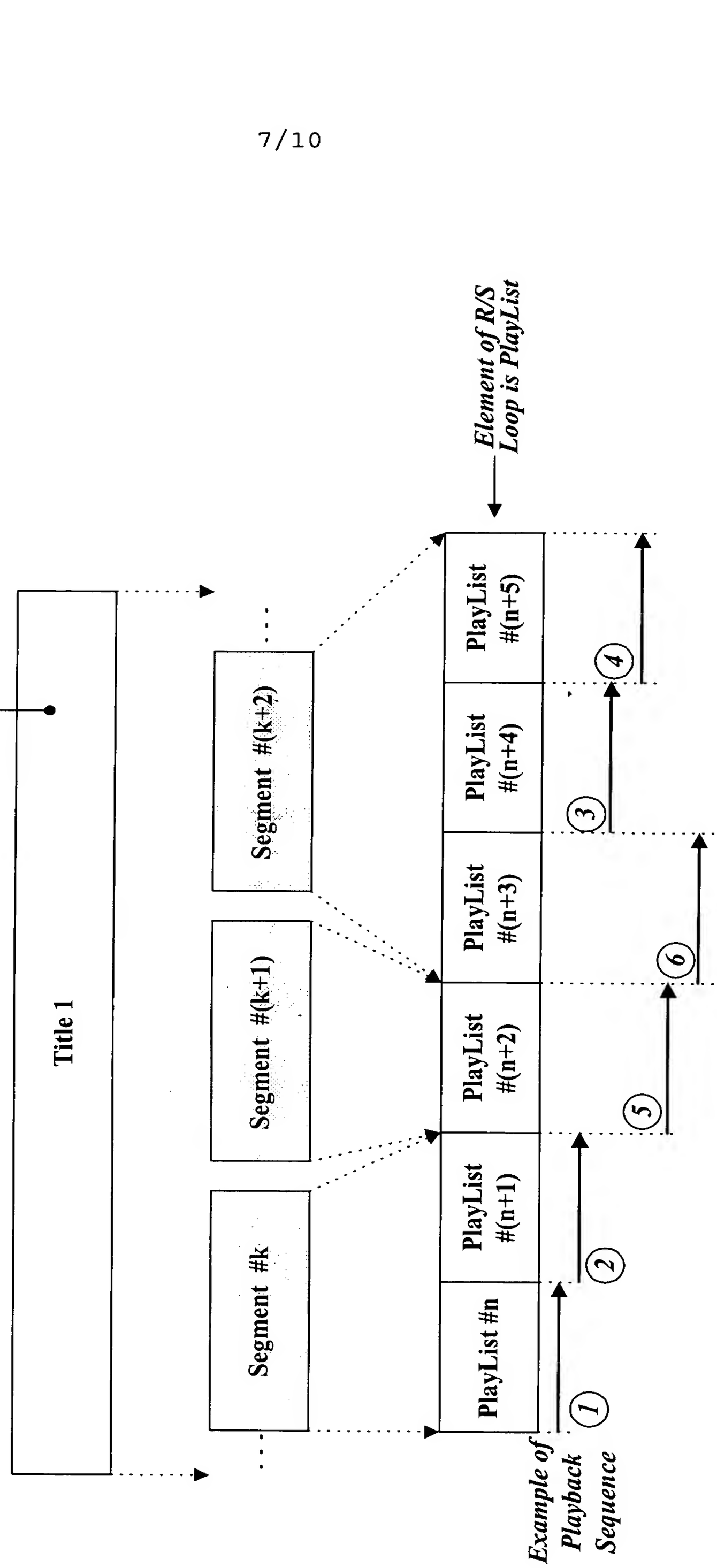

R/S_Info
Title 1
Segment #k
Segment #(k+1)
Segment #(k+2)
PlayList #n
PlayList #(n+1)
PlayList #(n+2)
PlayList #(n+3)
PlayList #(n+4)
PlayList #(n+5)
Element of R/S Loop is PlayList
Example of Playback Sequence
1
2
3
4
5
6

FIG. 8

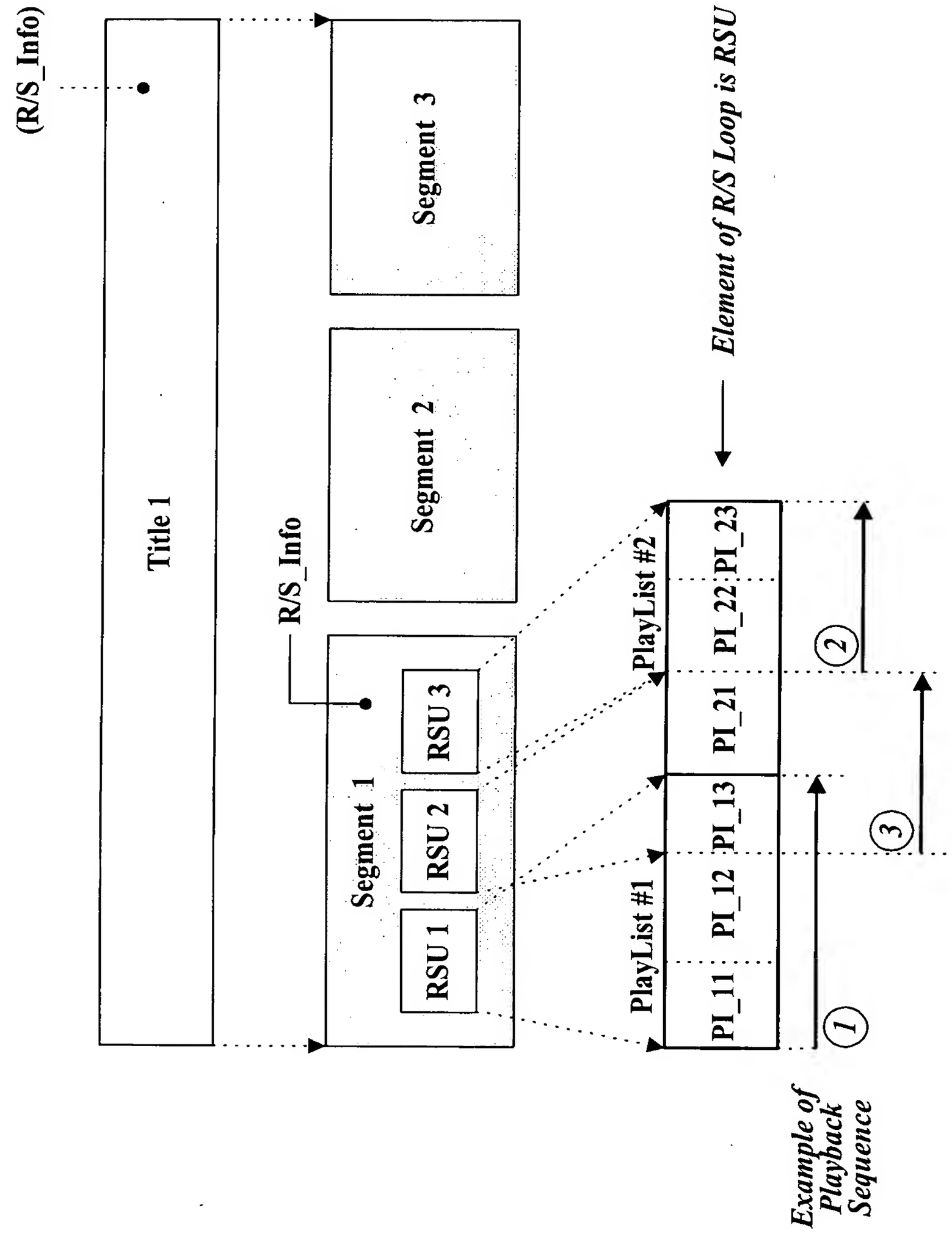

Example of Playback Sequence
Title 1
Segment 1
Segment 2
Segment 3
R/S_Info
(R/S_Info)
RSU 1
RSU 2
RSU 3
PlayList #1
PlayList #2
PI_11
PI_12
PI_13
PI_21
PI_22
PI_23
Element of R/S Loop is RSU
1
2
3

FIG. 9

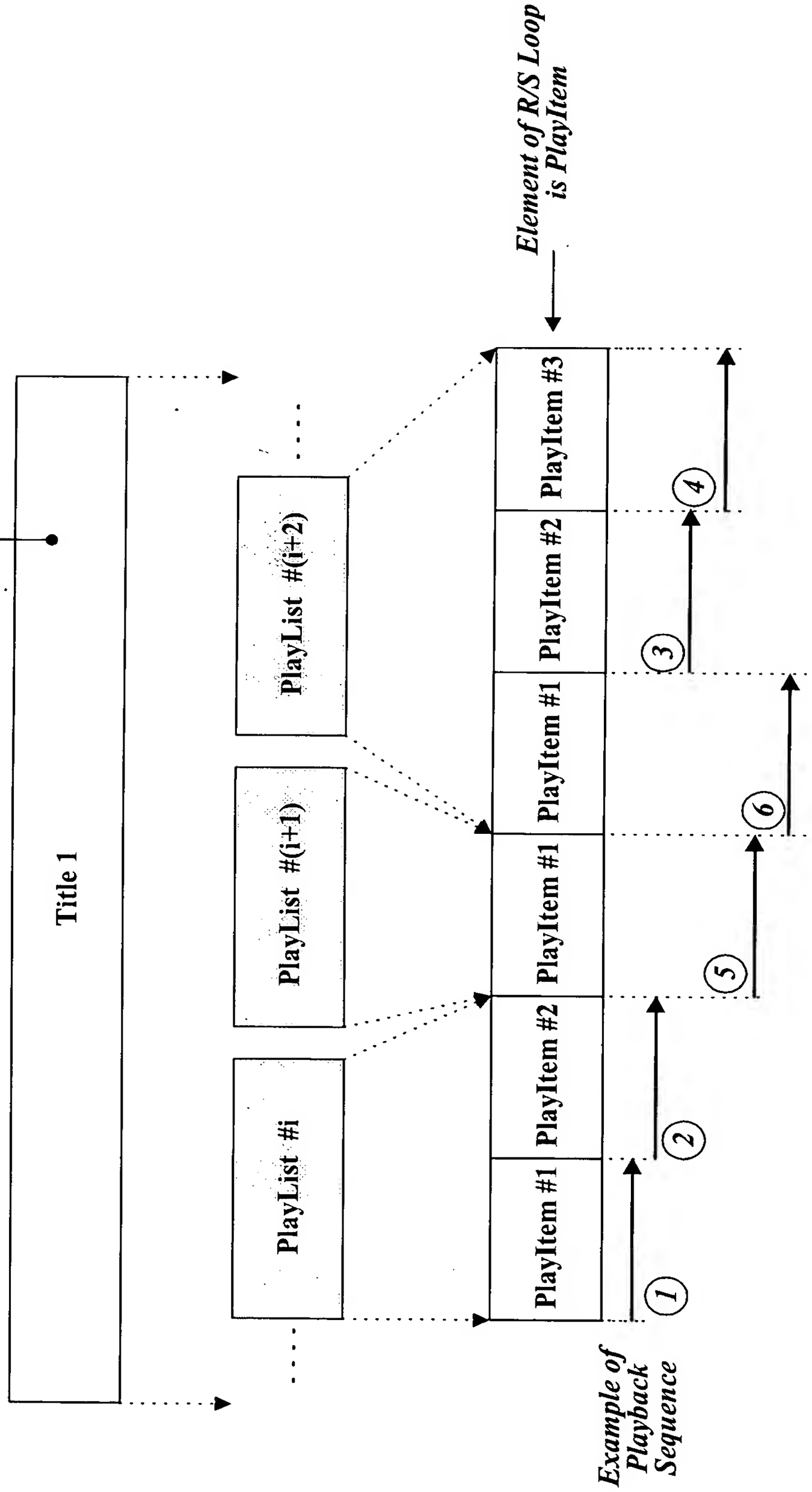
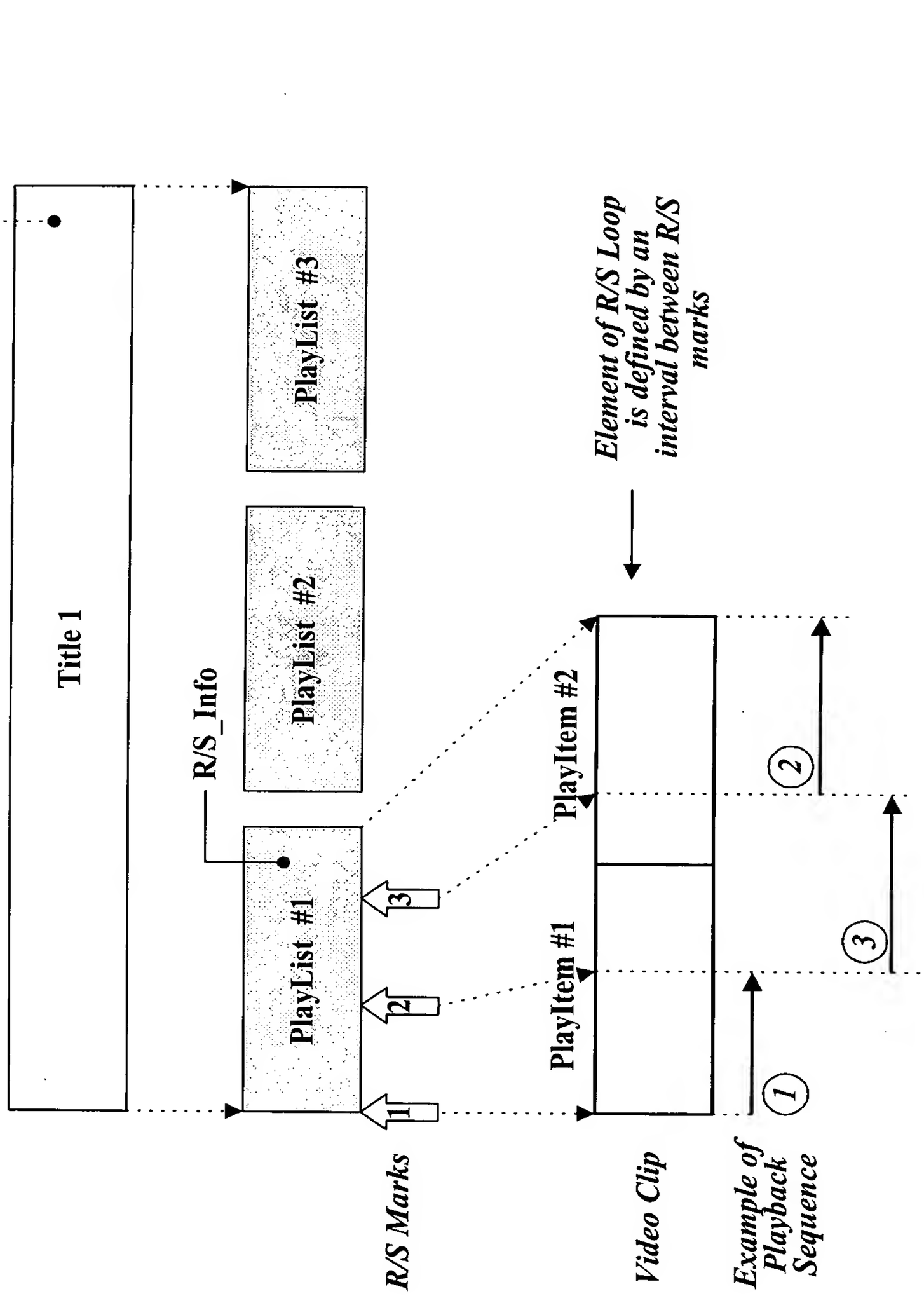

R/S_Info
Title 1
PlayList #i
PlayList #(i+1)
PlayList #(i+2)
Element of R/S Loop is PlayItem
PlayItem #1
PlayItem #2
PlayItem #3
Example of Playback Sequence
1
2
3
4
5
6

FIG. 10


Title 1
(R/S_Info)
R/S_Info
PlayList #1
PlayList #2
PlayList #3
PlayItem #1
PlayItem #2
1
2
3
Element of R/S Loop is defined by an interval between R/S marks
R/S Marks
Video Clip
Example of Playback Sequence